An integrated experimental approach to quantify the oil recovery potential of seawater and low-salinity seawater injection in North Sea chalk oil reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Numerical Study of Fractured Reservoirs' Productivity Behavior through Coupled Hydromechanical Model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

A three-dimensional coupled thermo-hydro-mechanical model for deformable fractured geothermal systems
Publication: Research - peer-review › Journal article – Annual report year: 2018

Austenite reversion in low-carbon martensitic stainless steels – a CALPHAD-assisted review
Niessen, F. 2018 In : Materials Science and Technology. 14 p.
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Water Treatment Case Study for Quantifying Model Performance with Multilevel Flow Modeling
Nielsen, E. K., Bram, M. V., Frutiger, J., Sin, G. & Lind, M. 2018 In : Nuclear Engineering and Technology. 50, 4, p. 532-541
Publication: Research - peer-review › Journal article – Annual report year: 2018

Carbon capture innovation challenge
Publication: Research - peer-review › Report chapter – Annual report year: 2018

Dynamic plantwide modeling, uncertainty and sensitivity analysis of a pharmaceutical upstream synthesis: Ibuprofen case study
Publication: Research - peer-review › Journal article – Annual report year: 2018

Heat Recovery from Multiple-Fracture Enhanced Geothermal Systems: The Effect of Thermomechanical Fracture Interactions
Publication: Research - peer-review › Journal article – Annual report year: 2018

In-situ analysis of redistribution of carbon and nitrogen during tempering of low interstitial martensitic stainless steel
Publication: Research - peer-review › Journal article – Annual report year: 2018

In Situ Investigation of the Evolution of Lattice Strain and Stresses in Austenite and Martensite During Quenching and Tempering of Steel
Publication: Research - peer-review › Journal article – Annual report year: 2018
Investigation on the Productivity Behaviour in Deformable Heterogeneous Fractured Reservoirs
Kadeethum, T., Salimzadeh, S. & Nick, H. 2018
Publication: Research - peer-review › Paper – Annual report year: 2018

Mass detection, localization and estimation for wind turbine blades based on statistical pattern recognition
Colone, L., Hovgaard, K., Glavind, L. & Brincker, R. 2018 In : Mechanical Systems and Signal Processing. 107, p. 266-277
Publication: Research - peer-review › Journal article – Annual report year: 2018

Nonlinear multigrid solvers exploiting AMGe coarse spaces with approximation properties
Publication: Research - peer-review › Journal article – Annual report year: 2018

Salt-Induced Control of the Grafting Density in Poly(ethylene glycol) Brush Layers by a Grafting-to Approach
Ortiz, R., Olsen, S. & Thormann, E. 2018 In : Langmuir. 34, 15, p. 4455-4464
Publication: Research - peer-review › Journal article – Annual report year: 2018

Scenario Based Approach for Load Identification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Seismic geomorphology and origin of diagenetic geobodies in the Upper Cretaceous Chalk of the North Sea Basin (Danish Central Graben)
Publication: Research - peer-review › Journal article – Annual report year: 2018

Surface forces between highly charged cationic polyelectrolytes adsorbed to silica: How control of pH and the adsorbed amount determines the net surface charge
Publication: Research - peer-review › Journal article – Annual report year: 2018

Synergy potential for oil and geothermal energy exploitation
Publication: Research - peer-review › Journal article – Annual report year: 2018

Thermoporoelastic effects during heat extraction from low-permeability reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2018

METHOD OF MANUFACTURING A COMPOSITE STRUCTURE INCLUDING A TEXTILE FABRIC ASSEMBLY
Fischer, G. 14 Jun 2017
Publication: Research › Patent – Annual report year: 2017

A case hardened component of titanium
Christiansen, T. L., Jellesen, M. S., Somers, M. A. J. & Gammeltoft-Hansen, N. B. 2 Jun 2017
Publication: Research › Patent – Annual report year: 2017

Additively manufactured metallic porous biomaterials based on minimal surfaces: A unique combination of topological, mechanical, and mass transport properties
Publication: Research - peer-review › Journal article – Annual report year: 2017
An evaluation of interferences in heat production from low enthalpy geothermal doublets systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

An integrated workflow for stress and flow modelling using outcrop-derived discrete fracture networks
Publication: Research - peer-review › Journal article – Annual report year: 2017

Applying LCA in decision making- the need and the future perspective
Publication: Research - peer-review › Journal article – Annual report year: 2017

Calibration of the NDHA N2O model via respirometric assays
Domingo-Felez, C., Calderó-Pascual, M., Sin, G., Plósz, B. G. & Smets, B. F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Complementary Methods for the Characterization of Corrosion Products on a Plant-Exposed Superheater Tube
Publication: Research - peer-review › Journal article – Annual report year: 2016

Data Requirements and Modeling for Gas Hydrate-Related Mixtures and a Comparison of Two Association Models
Liang, X., Aloupis, G. & Kontogeorgis, G. M. 2017 In : Journal of Chemical and Engineering Data. 62, 9, p. 2592-2605
Publication: Research - peer-review › Journal article – Annual report year: 2017

Economic Optimizing Control for Single-Cell Protein Production in a U-Loop Reactor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effect of Foam on Liquid Phase Mobility in Porous Media
Eftekhari, A. A. & Farajzadeh, R. 2017 In : Scientific Reports. 7, 8 p., 43870
Publication: Research - peer-review › Journal article – Annual report year: 2017

Effect of Poroelasticity on Hydraulic Fracture Interactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Electrical Double-Layer and Ion Bridging Forces between Symmetric and Asymmetric Charged Surfaces in the Presence of Mono- and Divalent Ions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energy and exergy analysis of alternating injection of oxygen and steam in the low emission underground gasification of deep thin coal
Publication: Research - peer-review › Journal article – Annual report year: 2017

Experimental investigation of interfacial crack arrest in sandwich beams subjected to fatigue loading using a novel crack arresting device
Publication: Research - peer-review › Journal article – Annual report year: 2017
Experimental study of strain prediction on wave induced structures using modal decomposition and quasi static Ritz vectors
Publication: Research - peer-review › Journal article – Annual report year: 2017

Finite element simulations of interactions between multiple hydraulic fractures in a poroelastic rock
Publication: Research - peer-review › Journal article – Annual report year: 2017

Geomechanics and geology: introduction
Publication: Communication › Book chapter – Annual report year: 2017

Including product features in process redesign
Publication: Research - peer-review › Journal article – Annual report year: 2017

Kinetics analysis of two-stage austenitization in supermartensitic stainless steel
Publication: Research - peer-review › Journal article – Annual report year: 2016

Kinetics modeling of delta-ferrite formation and retainment during casting of supermartensitic stainless steel
Publication: Research - peer-review › Journal article – Annual report year: 2017

Modal participation in multiple input Ibrahim time domain identification
Publication: Research - peer-review › Journal article – Annual report year: 2017

Oma modal indication by sensitivity to added artificial noise
Juul, M. O., Olsen, P., Tarpe, M. & Brincker, R. 2017 IOMAC 2017 - 7th International Operational Modal Analysis Conference. p. 92-95
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

On minimizing the influence of the noise tail of correlation functions in operational modal analysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

On the connectivity anisotropy in fluvial Hot Sedimentary Aquifers and its influence on geothermal doublet performance
Publication: Research - peer-review › Journal article – Annual report year: 2017

Operational modal analysis based prediction of actual stress in an offshore structural model
Publication: Research - peer-review › Conference article – Annual report year: 2017

Pore-Scale Investigation of Crude Oil/CO₂ Compositional Effects on Oil Recovery by Carbonated Water Injection
Publication: Research - peer-review › Journal article – Annual report year: 2017
Quantification of oil recovery efficiency, CO₂ storage potential, and fluid-rock interactions by CWI in heterogeneous sandstone oil reservoirs
Seyyedi, M., Sohrabi, M., Sisson, A. & Ireland, S. 2017 In : Journal of Molecular Liquids. 249, p. 779-788
Publication: Research - peer-review › Journal article – Annual report year: 2017

Reliability analysis of offshore structures using OMA based fatigue stresses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Resilience of systems by value of information and SHM
Miraglia, S., Faber, M. H., Thøns, S. & Stewart, M. G. 2017 Safety, Reliability, Risk, Resilience and Sustainability of Structures and Infrastructure: 12th Int. Conf. on Structural Safety and Reliability, Vienna, Austria, 6–10 August 2017. p. 2998-3007
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Stabilization diagrams using operational modal analysis and sliding filters
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Structural Monitoring for Offshore Structures: A challenge needs to be undertaken
Katsanos, E., Diord Rescinho Amador, S. & Brincker, R. 2017 Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Temperature Effects on Stiffness Moduli of Reservoir Sandstone from the Deep North Sea
Orlander, T., Andreassen, K. A. & Fabricius, I. L. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

The impact of reduction of doublet well spacing on the Net Present Value and the life time of fluvial Hot Sedimentary Aquifer doublets
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermodynamic Analysis of Chalk–Brine–Oil Interactions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Three-Dimensional poroelastic effects during hydraulic fracturing in permeable rocks
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards the understanding of microbial metabolism in relation to microbial enhanced oil recovery
Publication: Research - peer-review › Journal article – Annual report year: 2016

A general procedure for estimating dynamic displacements using strain measurements and operational modal analysis
Skafte, A., Aenlle, M. L. & Brincker, R. 2016 In : Smart Materials and Structures. 25, 2, 8 p., 025020
Publication: Research - peer-review › Journal article – Annual report year: 2016
A geometrically based method for predicting stress-induced fracture aperture and flow in discrete fracture networks
Publication: Research - peer-review › Journal article – Annual report year: 2016

Application of infrared thermography for temperature distributions in fluid-saturated porous media
Publication: Research - peer-review › Journal article – Annual report year: 2016

Damping characteristics of a footbridge: Mysteries and truths
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

In Situ Techniques for the Investigation of the Kinetics of Austenitization of Supermartensitic Stainless Steel
Publication: Research - peer-review › Journal article – Annual report year: 2016

Microbial enhanced oil recovery—a modeling study of the potential of spore-forming bacteria
Publication: Research - peer-review › Journal article – Annual report year: 2015

Orbital calibration of the late Campanian carbon isotope event in the North Sea
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of different aperture distribution models and critical stress criteria on equivalent permeability in fractured rocks
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of in-situ stress and outcrop-based fracture geometry on hydraulic aperture and upscaled permeability in fractured reservoirs
Bisdom, K., Bertotti, G. & Nick, H. 2016 In : Tectonophysics. 69, Part A, p. 63-75
Publication: Research - peer-review › Journal article – Annual report year: 2016

The influence of facies heterogeneity on the doublet performance in low-enthalpy geothermal sedimentary reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2016

Projects:

Big data at DHRTC
Jørgensen, T. M. & Schmidt, K. G.
15/09/2017 → 31/12/2017
Project

Numerical modelling of near wellbore flow
Kadeethum, T., Nick, H. & Salimzadeh, S.
01/07/2017 → 30/06/2020
Risk Based Asset Management of subsurface wells against corrosion and scale
Miraglia, S.
01/03/2017 → ...
Project

Novel Productivity Enhancement Concept for a Sustainable Utilization of a Geothermal Resource
Nick, H.
01/03/2016 → 31/08/2019
Project

Operations and Maintenance Technology, CTR1
Jørgensen, T. M.
15/02/2016 → 01/01/2020
Project

3D imaging center
01/01/2016 → 01/01/2021
Project

Activities:

Pilot Demonstration of Alarm Management in Oil & Gas Operations. - Decision Support from Functional Modelling.
Jørgensen, T. M. (Guest lecturer)
14 Nov 2017 → 15 Nov 2017
Activity: Talks and presentations → Conference presentations

Applying LCA in decision making- the need and the future perspective
Dong, Y. (Speaker), Miraglia, S. (Other), Manzo, S. (Other), Georgiadis, S. (Other), Sørup, H. J. D. (Other), Boriani, E. (Other), Hald, T. (Other), Thöns, S. (Other), Hauschild, M. Z. (Other)
10 May 2017
Activity: Talks and presentations → Conference presentations

Making sense of Big Data
Jørgensen, T. M. (Guest lecturer)
24 Apr 2017
Activity: Talks and presentations → Talks and presentations in private or public companies and organisations

Making sense of big data for Produced Water Treatment
Jørgensen, T. M. (Invited speaker)
17 Nov 2016
Activity: Talks and presentations → Conference presentations

Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study
Saseendran, V. (Speaker), Berggreen, C. (Lecturer), Leif A. Carlsson (Lecturer)
20 Mar 2016 → 22 Mar 2016
Activity: Talks and presentations → Conference presentations

Biorefinery Öresund Conference 'Biorefining from raw material to high value products'
Cheali, P. (Speaker), Gernaey, K. V. (Speaker), Sin, G. (Speaker)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations → Conference presentations
Press clippings:

Interview with research talents
Frank Nießen
25/05/2018
1 media contribution
Press / Media

Experiments on Supermartensitic Stainless Stainless Steel in Berlin
Frank Nießen
17/10/2017
1 media contribution
Press / Media